BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE
Office of the Executive Engineer

SCHEDULE-B

NAME OF WORK:Improvements of Ravindra Nagara School in ward no 13 Shettyhalli Sub Division.

Sl.No	Description of work	Unit	Qty	Santioned Rate	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications	Cum	91.86	400.00	
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	31.95	6500.00	
3	Providing and constructing granite /trap/ baslat size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	58.68	6000.00	
4	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications	Sqm	47.4	125.00	
5	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification	Cum	91.86	150.00	
6	Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all matenals, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications	Cum	67.97	8000.00	
7	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastsiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications.	Sqm	2.88	500.00	
8	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tonne	7.79	75000.00	

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9	Providing and removing centering shuttering strutting propping etc., and removal of form work for columns, pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification	Sqm	98.15	600.00	
10	Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification	Sqm	142.4	400.00	
11	Providing and removing centering shuttering strutting propping etc., for chejjas, corbels etc., including edges including cost of all materials, labour complete as per specifications	Sqm	3.78	400.00	
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification	Sqm	196	650.00	
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton.	Sqm	8.08	525.00	
14	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications	Sqm	458.58	1100.00	
15	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications	Sqm	677.88	200.00	
16	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	Sqm	90.48	210.00	
17	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .	Sqm	281.84	200.00	
18	Providing lime rendering for plastering to wall and ceiling, including cost of materials labour, curing complete as per specifications	Sqm	959.72	20.00	
19	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.	Sqm	959.72	50.00	
20	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer.	Sqm	677.88	90.00	
21	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications	Sqm	90.48	90.00	
22	Providing White Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps) but including cost of materials, labour, HOM of machineries complete as per specifications.	Cum	0.4	70000.00	

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	Providing and fixing in position fully panelled Mathi/ Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	Sqm	9.24	2000.00	
4	Providing and fixing M.S. grill work for windows and ventilator weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery specifications	Kg	362.88	80.00	
25	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.	Sqm	197.4	850.00	
26	Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads, steps and landing, laid on a bed of 20mm thick cement mortar 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, cleaning etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment. , etc., complete as per specification	Sqm	18.72	800.00	
27	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm	16.9	2000.00	
28	Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or	Sqm	17.28	6000.00	
29	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specificatios	Sqm	9.24	40.00	
30	Providing and applying painting two coats (excluding priming coat) on new wood surface and/ or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications	Sqm	9.24	90.00	

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31	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs balconies terraces etc consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admix with proprietary water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with proprietary water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with proprietary water proofing compound wall finally finishing the surface with trowel and neat cement slurry and making of 300 x 300 mm squares e the whole terrace so finished shall be flooded	Sqm	91.79	850.00	
32	G.I. Barbed Wire Fencing 1.2 Metre High-Providing and fixing 1.2 metres high GI barbed wire fencing with 1.8 m angle iron posts 40 mm x 40 mm x 6 mm placed every 3 metres center to center founded in M15 grade cement concrete 0.6 metre below ground level every 15th post, last but one and post and corner post shall be strutted on both sides and end post on one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires fixed with GI staples, turn buckles etc complete as per clause 850.7 as per specifications	Mtr	139	200.00	
33	Fabricating, providing and erecting in position Hot dip galvanised Gate, using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and not bending to form double arch as per drawing profile 20mm hot dip galvanised sq. rod for verticals at 150mm c/c as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe GI sq. rods GI forged designs etc. heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each leaf. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions.	Sqm	13.75	7000.00	
34	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or PWSS by vertical electrical sounding by adopting Verner or Schlumbergers's method including reconnaissance survey of geological formation. Geological investigation of existing ground water in vicinity, its quality, quantity & accessibility of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc.	Each	1	2000.00	
35	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burden upto 20 m, fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc. complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.) 0.00 to 50.00 Mtr	Mtr	50	350.00	
36	50.00 to 100.00 Mtr	Mtr	50	700.00	
37	100.00 to 150.00 Mtr	Mtr	50	750.00	

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	[illegible]	Mtr	50	800.00	
	[illegible]	Mtr	50	550.00	
	[illegible]	Mtr	50	600.00	
	[illegible]	Mtr	50	400.00	
40	Supplying & fixing 15 mm nominal bore medium class PVC casting tube & joint the pipe work, installation connections work complete with testing & commissioning as per IS 1367/1992 and manufacturers instructions in various length & in "A" line with all necessary accessories complete as per IS 2794/1995 and etc.	Rmt.	40	1375.00	
41	Providing and fixing 250mm dia PVC tube and as per specification and directions	Rmt.	6	1200.00	
42	[illegible]	Each	1	100.00	
43	Supply & fixing M.S. [illegible]	Each	1	150.00	
44	Supply & laying at site under new [illegible]	Nos	1	900000.00	
45	Providing laying & connecting 3 cores armoured S.S. [illegible]	Rmt.	250	650.00	
46	Cable	Each	27	225.00	
47	Supplying and drawing 2 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 2 class 5 of IS 8130-1984 and vinyl grade PVC insulation and sheathed suitable for working voltage upto 1100 volts & suitable for 50 cycles 3 phase AC	Rmt.	265	175.00	
48	Supplying & laying at site under new Steel tube submersible pump [illegible] (3 numbers 265 kilograms make centrifugal energy, mixed-flow-vertical pump open shaft of size 100 x 100 x 100 mm nominal mechanically strong and vermin proof wear proof the unit shall have two passages covers suitable to operate at 3ph, 50Hz, 350/440 volts AC supply with starting cables and coupling with 3 wire 10S STOLC to provided inside the tube water tender each are curves (emblems shall be provided the complete energy the pump comes open type suitable to operate at 3ph, 50Hz, 350/440 AC supply shall be complete etc. complete 7 panel board shall be connected at single unit in the above components panel board to suitable purpose above components same board to suitable purpose above 5.5 HP to 6.00 HP with star delta starter MR)	Nos	1	210000.00	

Signature of the Contractor

Executive Engineer,
Dasarahalli Division.

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